MILATARI

COMPUTER ART BY DICK SKOVER

MILATARI NEWSLETTER
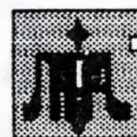
MAY EVENTS CALENDAR

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May    9th    7:30pm    ATR8000*CP/M SIG
                        Don Wilcox's home

May    16th   7:30pm    Board of Directors
                        Chris Stieber's home

May    18th             Milatari East Meeting
                        Armbruster School
              2:00pm    Asseembler SIG
              3:00pm    Business meeting;
                        Adopt new By-laws
                        Election of officers
              4:00pm    Demo - XE130 cpu

May    23rd   7:30pm    Milatari West meeting
                        Waukesha State Bank
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PRESIDENT'S RAM
by Gary Nolan

FIRST THINGS FIRST

Two important reasons for you to attend the May meeting are elections and voting on the revised by-laws. The by-laws were revised in order for us to better fit the state's definition of a non-profit group.

The slate of candidates for office to run the club for the next year are as follows;

President .... Dave Frazer
Vice President .... Carl Mielcarek
Secretary .... Jim Mangione
Treasurer .... Steve Tupper

If you would like to run for or nominate someone for office you can still do so at the meeting.

Bob Bobinger will take over Carl's job as disk librarian, but we still need someone to help with the newsletter as Dave will not be able to do both jobs. We have a volunteer to HELP with the job but he can't do it all as he travels a lot in his real world job. So if you want this newsletter to continue, you'll have to help.

GOOD SHOW!!

Those of you who attended the April meeting saw a well done presentation of Broderbund's software by Bill Holt of Broderbund. You also got a look at an Atari 520ST which was shown by Erik Gunderson of City Software. We would like to thank both of these gentlemen for taking time to visit with us. We would also like to thank Tom Kassel from the Computer Software Center for being there with a lot of software and good deals. As Bill said during his presentation, he encourages people to support dealers who help support the user groups. The Computer Software Center opens an hour earlier and stays open an hour later than normal on meeting Saturdays for the convenience of Milatari members. Tom has an excellent selection of Atari software and will try to get what's not in stock as fast as he can. He's open from Noon to 8pm, Tues.-Fri., Noon-5pm on Sat. and 11am till 6pm on meeting Saturdays. Check them out.

ARE TWO HEADS BETTER THAN ONE?

Can't make up your mind whether to get a dot matrix or daisy wheel printer? Well Brother, the typewriter/printer people, just made it a little easier. They just introduced the Twinriter 5 printer which has both a dot matrix and a daisy wheel built in. It takes cassette type ribbons and has easily changed print wheels and can be interfaced to almost any computer and word processing program. No price or availability schedule but you can figure on around $700/1000 and later this year.

NOW THAT'S REAL HANDY

Handi Publishing is making user groups a special offer on two of their Handicards. These are 11" X 4 1/4" plastic reference cards for Basic and AtariWriter that have all the commands on them and can stand up to constant use. Regular price is $8.95 but during this offer it has been reduced to $5.95, in lots of ten. If you're interested see Steve Tupper at the meeting and if we get ten ordered we'll send for them.

THE PLOT THICKENS

In case you haven't heard, Atari has pulled out of the summer CES. Reasons have been given by everyone but Atari. The National Inquirer of the financial world, The Wall Street Journal, has said that Atari is in financial trouble and this move casts doubt on the release of the two new computers. Another trade publication claims that the 65XE has been scrapped and that they doubt if the 130XE will ever see the shelves. I don't know why Atari pulled out of the show, it could have been to convince dealers

PRESIDENT'S RAM

(computer types) that they are serious about selling systems. We do know that the 130XE is being sold locally by Starting Computers, and I've maintained that mid-May/1st of June was a more realistic date for the ST's release. But then I thought they'd be at the CES. Atari has said that the ST's would be sold through dealers all along, and if that's the case they don't need the CES as a way to line up sales outlets. The system I'm waiting for, the music machines, have been delayed so I'm in no great hurry. I'D just be too tempted by a plain 520 and probably get one right away. Atari has a plan to get the ST's **to user group members as a group** purchase type thing at initial roll-out, but that remains to be seen as something like that requires a lot of planning. The hardest part of all this is waiting to see what happens. It would be a shame for this whole thing to fall apart now. But I think that the product (ST line) is good enough to pull it through. Lets hope the press can't kill it off the way they have others.

PUBLIC WARNING
OORRRR.... HOW COME THIS RASH KEEPS COMING BACK

Informed sources have informed me that Dick's Place is coming back under an assumed identity. The new ID will be called The Computer Wharehouse or something similar. But whatever the name the faces behind it will be the same as before. Now we all know about Dick's, and the horror stories need not be repeated here. But an informed public is a forewarned public in this case. So take this as your first warning.

HURRY, HURRY, HURRY... COM' ON SON, MOVE IT!

There is still time to take advantage of the Atari Explorer offer from last month. Go back to last months

newsletter, turn to page 11, fill out the form for a subscription (amount is up to you) and mail it to Steve Tupper (address is right at the bottom of the page) along with a check (we even tell you who to make it out to) and we'll send it in. Rates are standard but the club gets to keep some of it for our treasury, so you'll not only be helping the group but you'll get a good magazine to boot. Well you can't really boot it, but you can read it.

Well, you waiting for Christmas or somthin'.

COVER YOUR EYES KIDS, HERE COMES THE MUSHY STUFF

In the almost four years that I've been president of MILATARI I've seen us grow from 25 to 400 members. I've made many friends, helped a few of you and talked to uncounted numbers of people on the phone, for more hours than my wife likes to think about, about the club and computer related equipment. I've learned as much as taught and received as much as gave. Problems were solved, equipment fixed, stories shared and frustrations were vented over that time period. But I **have enjoyed almost all of it. I've been** the president these past years, but you've been the ones that have made this work so well. Nobody could build a group like this on their own, and over the years we've had some good people working to help the club. This isn't the Academy Awards, and we don't have enough space to thank all the people who have helped along the way. From myself and for all the others in the group who've benefited from your efforts, THANKS!!

For as far as we've come we still have a ways to go. And go we will. For with new **officers come new ideas and new ways to** get things done. I hope that you'll give the new officers of MILATARI as much
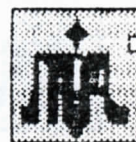
DOS 2.5 TO THE RESCUE
by ERIC CLAUSEN

This long awaited product, successor to Atari 2.0, will become the new 'official' Atari DOS. It was written by the same group of people (headed by Bill Wilkinson of Optimized Systems Software) who are responsible for Atari BASIC, DOS 2.0, BASIC A+, BASIC XL, DOS XL, ACTION! and other top-ranked Atari products.

DOS 2.5 supports both single density and the enhanced (dual) density mode on the Atari 1050 disk drive. If you format a disk in your 1050 drive with this DOS, you'll find that you now have 1010 sectors (129K) of available disk storage. This represents a 43% increase in capacity over DOS 2.0. DOS 2.5 maintains the use of 128 byte sectors but increases the number of sectors per track from 18 to 26.

Most importantly, DOS 2.5 maintains file compatibility with DOS 2.0. Thus if you have a 1050 drive, you can boot up DOS 2.5, format a disk, directly copy your DOS 2.0 files onto the disk and have considerably more room left over. All this with no hardware modifications to the disk drive.

Otherwise, this new DOS looks and acts exactly like DOS 2.0. The menu will be reassuringly familiar as there has been only one addition: Option [P] on the DOS 2.5 menu will allow 1050 disk drive users to force a single density disk format instead of the default enhanced density.

Those of you with 810 drives need not despair, this DOS is for you too. Although you will not be able to use the enhanced density feature, you can boot DOS 2.5 disks that were formatted and written in single density on 1050 drives. The way that DOS 2.5 handles this is to "hide" files from the 810 drive that cross over sector 720, which is normally the last DOS 2.0 sector. If you completely fill a DOS 2.5 disk (1010 sectors) on a 1050 and then check the disk directory at some point you will see files listed like this: FILE1.BAS 025 <FILE2.BAS> 025

This tells you FILE1.BAS is entirely contained within the first 720 disk sectors and can therefore be accessed by an 810 drive. The file(s) with the "< >" characters around them are NOT accessible with an 810 drive because they are physically located where the 810 drive can't read them. So if you have an 810 and ask your friend with a 1050 to copy some of his files, make sure the files you want don't have < > around them!

Other features of DOS 2.5 are:

1) Though the directory of an empty formatted disk will read "999+ FREE SECTORS". You really have 1010 sectors.

2) Option J (Duplicate Disk) now formats the destination disk before copying.

3) DOS 2.5 will allow 64K of memory in the new 128K Atari 130XE computer to be used as a ramdisk.

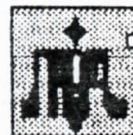4) A file conversion utility to convert Atari DOS 3.0 files to the DOS 2.5 format.

5) A utility to create autoboot basic programs.

6) An un-erase capability to retrieve accidently erased files.

7) You can easily turn write verify on or off and change the number of disk buffers, without resorting to POKEs.

8) The ability to test for bad sectors -- whole disk only.

The following is reprinted from:
Southern Nevada
Atari Computer Club
Oct 1984 No. 29

THE LEFT HANDED 800
Modifiying the ATARI 800
to have two left cartridge slots
by David Voit
S.M.L.A.C.E. User Group

If you are one of the many people with two left feet you may resent the fact that the Atari 800 has a right and left cartridge slot and they both function differently. Wouldn't it be nice if the 800, like our feet, had only left slots? Well with a little courage and two left hands you can convert your 800 so that both cartridge slots function as switch selectable left slots. In this new configuration the computer can be switched from the empty cartridge configuration, to either of the two slots with left cartridges in both. For example, you can have BASIC XL in one slot, ACTION or ATARIWRITER in the other, and with a flick of a switch and pressing SYSTEM RESET move from one to the other. There is a price to pay for this modification. You have to give up the use of all the right cartridges you have bought over the years. Among the many are Monkeyrench and Monkeyrench II. (80 column cartridge also ... the ed.)

MATERIAL AND EQUIPMENT

If you are interested in the project you will need one miniature double pole double throw switch with a center off position, some wire, some solder and a soldering pencil, something to cut traces on the mother board (a pocket knife will do) and a drill to make a hole to mount the switch.

GETTING STARTED

The first step is to open the Atari 800 and remove the mother board. To do this unplug the power and serial bus, remove the cartridge door/top cover exposing the cartridge slots, operating system ROM board, the memory boards. Remove any cartridges, the memory boards and the 10K Rom board and set aside. Now turn the computer over and remove the five screws that secure the bottom cover. With the game ports facing you, carefully remove the bottom cover by lifting at the rear and then sliding it forward to clear the game port connectors. This will expose the mother board and its RF shield.

Remove the nine phillips screws holding the bottom RF shield and mother board in the RF cage. Remove the phillips screws on the sides of the RF cage and gently lift the front edge of the mother and power supply boards and disconnect the keyboard ribbon cable, the power supply cable, and speaker cable. Separate the power supply board and the mother board. Lift out the mother board and remove the CPU card from the mother board. Now remove the RF shield by pressing the center pin in on each of the four plastic expansion pins, removing the pins and lifting the shield off. This will expose the entire backplane of the mother board. Remove the plastic piece from the top of the board.

MODIFICATION OF THE MOTHER BOARD

To make this modification you will have to cut three traces on the top of the mother board and four traces on the bottom of the board. Figures A, B C, and D show the traces to be cut.

PAPERCLIP PREVIEW

by MICHAEL CIRAOLO and NAT FRIEDLAND

Simply, PaperClip is by far the best word processor ever available for the Atari. It boasts a line-up of advanced features that would be hard to match on even the biggest-name word processing software costing $300 or more.

PaperClip makes your Atari the word processing equal of just about any computer on the market. Yet it is not hard to learn and sells for only $59.95.

Some nuts and bolts information: PaperClip runs on all Atari computers with 48K. It comes on a disk that you can back up. But the program is protected by a special key that plugs into joystick port 2.

A few technical notes: As we've previously reported, it is based on the ACTION! editor and written in 100% machine language, so it's fast. (It's really quite different from the PaperClip version written for the Commodore 64.) The preliminary draft of the manual that we've got is pretty clearly written. And the screen gives you big, sharp letters with true descenders, because the program uses ANTIC Mode 3 and redefined characters.

UNIQUE FEATURES

To justify our enthusiasm for PaperClip, here are some of its most distinctive features:

* DUAL WINDOWS - You can display two text files onscreen at the same time. And you can easily move blocks of text between file windows.

* ONE-KEY MACROS - You can easily set up for one keytouch while pressing [START] to type in an entire word, phrase or paragraph that you regularly use in your writing.

* PREVIEW MODE - PaperClip is easier to use in 40-column screen format than any word processor we've ever seen. In the preview mode you can scroll horizontally or vertically to see exactly how your words will fit on the page. Even in the normal mode, a diamond mark at the end of each line shows exactly where the "hard spaces" stop.

* HIGH-POWER COMMANDS - There's practically no flipping between mode menus. Saving and loading files, disk formatting, editing, text entry, disk directories and help menus are all available from the same screen with the touch of very few keys. Some really unique and useful commands include automatic save, transposing letters or words, or converting capital letters and lower-case letters back and forth.

Of course, in PaperClip you will also find all the standard features you'd expect from a competitive word processor today. There's global search and replace, underlining, italics, boldface, headers and footers, onscreen help files, pitch control, page length setting, nearly 30 different printer drivers plus a configuration menu, and on and on...

Yet for all the power it offers, PaperClip is surprisingly easy to learn. This is unusual, because the more powerful editors are usually harder to master. But PaperClip is virtually as

PAPERCLIP REVIEW (Continued)

easy to use as Bank Street Writer so there is no reason why it shouldn't be your first word processor.

This review is based on the experiences of the four Antic editors during this first first month when we prepared an issue of the magazine entirely with PaperClip.

We wanted to tell you about this product as soon as possible. But the fact is that PaperClip even has a lot of other powerful features we simply haven't had a chance to work with yet. Plus there's one or two we've been told about that are still in development.

So at this time all we can do is list the most important extra features (We don't even have room for all of them) and promise to cover these extras in a later article or articles...

* TWO COLUMN PRINTOUT   * BUILT-IN MATH CALCULATOR   * MAILMERGE WITH SYNFILE+

Both programs are by the same authors, Steve Ahlstrom and Dan Moore, although SYNFILE+ was written in FORTH.

* MULTIPLE DISK FILE GLOBAL SEARCH - Up to 6 simultaneous search and replace operations throughout all linked disk files in as many as 4 separate drives. Truly amazing.

* ATARIWRITER-PAPERCLIP FILE CONVERSION - Antic Contributing Editor Jerry White is writing this one.

* MIXED TEXT/GRAPHICS SCREEN DUMP - This integrated screen dump will enable you to mix text and high-resolution Atari graphics (modes 7.5 and 8) on a single printed page. It's compatible with Micro Illustrator.

PRESIDENT'S RAM Continued

help and support as you have in the past:
I've been told that I will have to contribute an article every once in a while to the newsletter so this will not be the last one. And I'll still be at the meetings, although I might miss one or two. So this really isn't good-by, more like

A LATE NOTE!! It was just learned that while Atari will not be "exhibiting" at the COMDEX show in Atlanta, they will be showing the 520ST in a meeting room. Going to COMDEX was the reason behind the CES pullout. Atari's presence at the show is aimed at strengthening its distribution and to show dealers its intention to sell the ST's through them. When questioned about Jack Tramiel's former dealer policies an Atari spokesman said, "We're being open and straightfoward with everyone." (Good move, Jack)

DOS 2.5 (Continued)

Options 3 through 8 are not directly accessed through the menu but are included on the DOS 2.5 disk as binary load files.

One thing that concerns me, as a user, is the lack of a disk utility program for enhanced density disks. In some preliminary checks, I've found that DiskWiz 2 will read all enhanced density sectors out to sector 1023 (the difference between 1023 and 1010 is taken up by the boot and directory sectors where program data is not stored). It won't trace or map sectors that run past sector 720, however.

I hope some company or individual will soon produce a full-featured disk utility compatible with this highly impressive new DOS 2.5.

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BYLAWS

of

MILWAUKEE AREA ATARI USER GROUP

Article 1 - Name

The name of this organization shall be MILWAUKEE AREA ATARI USERS GROUP.

Article 2 - Purposes.

The purposes of this organization are:

1. To promote the development of the use of ATARI computers.
2. To assist members to achieve an understanding of how ATARI computers operate.
3. To meet with other ATARI owners and to make new friends.
4. To provide a library of public domain software and publications.
5. To publish a newsletter containing tips on problems, latest news, software and hardware reviews, columns on interesting subjects, rumors, programs, programming hints, and 'secrets' discovered by ATARI users worldwide.
6. To maintain contact with the many ATARI users groups around the world which provide a breath of knowledge and interests impossible in a local organization.

7. Other lawful activities authorized by chapter 181 of the Wisconsin Statues; as long as said activities are within the limitations for charitable and educational activities within the meaning of section 501(C)(3) of the Internal Revenue Code.

Article 3 - Membership

Section 1. Types of membership shall consist of active-individual, active-family, associate and honorary memberships.

    A. Active-individual and active-family memberships requires that the member meet the qualifications for admittance to this organization, have paid any initiation fees required and have their dues paid up-to-date. Active-individual and active-family memberships are entitled to one vote and may hold office.

    B. Honorary membership may be conferred upon an individual provide he/she meets the qualifications for admittance and is chosen by the executive board for such an honor. Such a member is entitled to the same privileges as an active-individual member.

Section 2. Admittance to this organization is open to individuals and families who are interested in using and programming ATARI computers.

Section 3. Application for membership must be made to the treasurer of the organization with correct initiation fees and annual dues

The Big City in this case was San Francisco and one of the tall buildings was not tall at all. It was the Moscone Center which was the site of the West Coast Computer Faire. The center appears to be built almost entirely underground with only the main entrance at ground level and is roughly the same size as MECCA maybe a bit smaller. The show is a combination of many interests in that it combines user group displays, selling dealers (lots of great deals) and those that were there just to exhibit such as Kaypro, Commodore (with not a whole lot of interested lookers) IBM, AT&T and many others. But the biggest portion of the people came to buy equipment, and there was a lot of it on sale. Hard disks for $99, quad drives for $89, everything from software to hardware to the desks they sit on to the chairs you sit on were on sale. With user groups representing almost every computer make also on hand to add an interesting blend to the event. The show was well attended on opening day and the most popular booth by far was the San Leandro Atari User Group´s booth which had the new Atari computers up and running. Both a 130XE and a 520ST where there to be seen and the crowd was two or three deep all day long. On display at the ABACUS (Atari Bay Area Users Society) booth next store was a MIDI interface with software from Hybred Arts that was running some very impressive music demos on an 800XL.

The main reason for the trip was the meeting at the offices of ANTIC magazine of Atari user groups from around the country. The meeting was held to celebrate ANTIC´s third birthday, to act as the initial WUN (Worldwide User Network) meeting and to bring together VIP´s from Atari and user group reps for a group discussion/Q&A session. It all started off in a party atmosphere with lots of good things to eat and drink. And to make certain that I reported the facts correctly, I sampled a little of everything. Hey, just doing my job. My report? It was all good, from the pate´ to the Anchor Steam beer to the champagne and birthday cake. Thanks ANTIC, you throw a good party!

After some socializing with people from other groups and looking over the equipment and the demo programs that were running we got down to the second reason for our presence. The initial WUN meeting. Most people from the user groups didn´t really know what ANTIC had planed to do with WUN. Information packets were passed out which explained some of the reasoning and intended make-up of the organization. Jim Capparell, ANTIC´s publisher, explained that WUN is intended to be a non-commercial body that will act as a intermediary between Atari and makers of related products, both hardware and software, and the Atari user community. It will use some of ANTIC´s resources, CompuServe and the Atari user group network to keep Atari users informed of what´s happening. The board of directors would be made of the following people.

From Atari: Sam Tramiel, Sig Hartmann and Neal Harris.
From ANTIC: Jim Capparell and Gary Yost
From Digital Research: Rob LaTulipe
From AtariSig: Ron Luks
And three user group reps, one each from the east, west and central regions. The make-up has been outlined and Atari knows that the user community will support something of this type, so all that´s left is to get them to agree to take part in it. As more is learned about WUN it will be passed on to you.

After going over the WUN program Jim Capparell opened up the Q/A session by introducing the principles from Atari. On hand were Sam Tramiel Atari´s President, Sig Hartmann who´s in charge of the software division, Neal Harris the Atari Explorer editor, Dave Duberman the user group coordinator for Atari, Rich Frick of the ST development team and Tom Brightman engineering VP. If I´m not mistaken Leonard Tramiel showed up towards the end of the session.

Some of the things to come out of that session were that Atari would like to give members of user groups the chance to buy some of the first 520ST´s. This would be done through the groups and the units would be at list price. But it was stressed that a lot of planning would have to go into this before it could be put into action.

The Learning Phone cartridge should be out before June. This is the much talked about Plato cartridge, actually it lets

you get on-line with Plato. Along with the cartridge you receive a free one year subscription to and a one free hour on Plato. This is said to be worth $35. The cart will sell for $30. A light module will be (I think it already is) available for the AtariLab. It looks like they'll support this for a while longer.

It was also mentioned that the 65XE would not be released until the 800XL's are sold out. Looks like that'll be near the end of the year. Personally, I'd forget it and go with the 130XE. For now the 1050 and its funny format is the 8-bit drive. A 3.5" drive might be developed for the 8-bits, but don't hold your breath. Software houses have to be convinced that there is a big enough market before they'll switch formats. Nothing was really said about monitors or printers as far as release dates. But when Sam Tramiel asked how many people wanted 8-bit/80 col. capability the roar was deafening. He then suggested that users tell the software houses how much they wanted it, then maybe we would see an 80 col. monitor come out. Forth will be available for the ST's but no decision has been made as to which programming language, if any, will be shipped with the machine. Right now the list of available languages includes Basic, Forth, Pascal and C which is the preferred programming tool right now. The ST's on hand were running a graphics demo in Forth off of a prototype 3.5", 10 Meg hard disk that was pretty impressive.

Atari was quite positive in saying that they intended to sell the ST line through computer dealers. To that end they've pulled out of the Summer CES and gone south to COMDEX in Atlanta to court these same dealers.

Sig Hartmann mentioned that if anybody finds a system bug, and the cure for it, that they should contact Atari. If the cure works out Atari will work out some form of "compensation" for your efforts. Sam Tramiel stated that the new 32-bit computer would be based on the National Semiconductor 32032 chip but that it would not be ready for the big show that was going to be held in Germany in the middle of April, and sure enough it wasn't. That system he said will be aimed at the small businessman. But, if an when it does come out, it could work it's way up the corporate ladder.

Beside Atari there were other vendors there with an interest in the computer market as it pertains to Atari. MPP had a couple of products including a hard disk interface. Indus was there with a $150 RAM-Charger board for thier disk drives. The card comes with 64K of RAM that can be used as a RAM disk. It also has a Z80 CPU that will allow you to run CP/M when they release the BIOS program. Astra was also on hand with an improved DSDD Double drive.

One of the highlights of the meeting was a musical demo by Enhanced Technology Associates of New York who did a fantastic job with a couple of Casio keyboards, a Hybrid Arts MidiMate interface and thier own software. All in all I think that everyone came away impressed with each other. We were impressed with Atari's "new" attitude and up-front willingness to talk to us. And I think that Atari found out how united in purpose and supportiveness the user groups are, and realized what a useful resource we can be for them. But above all every knows that in the ST's Atari has a real winner. All they have to do is bring it to market with good quality and by this time next year it could be #1. Even though they would deny it, I think Apple is starting to gear up for the fight by starting the first round of price cuts on the Mac. They've about given up on pushing the Mac into the Fortune 500 and are about to start the big push for the "small" business market. And while Atari is not saying that they are going to try to put the ST's into the business market they did say that would let the market determine where the ST is best suited. They do feel that it is a system that could do very well in both the home and "professional" markets.

Yes sir chillin', it's gone be an interesting year or two.

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Section 4. Initiation Fees and Dues.
   A. Initiation fees shall be $5.00 and be included with the
      application. Annual dues must also be included at the same
      time.
   B. Annual dues shall be $15.00 per year for
      active-individual membership, $20.00 per year for
      active-family membership and $10.00 per year for
      associate membership, payable to the treasurer not later
      than the last day of their current membership year.

Section 5. Resignation and Renewal of Membership
   A. A member who resigns in good standing (dues paid up to
      date) may reapply for membership at any time.
   B. Reinstatement requires payment of the initiation fee.

Section 6. Dropped from Membership for Nonpayment of Dues.
   A. A member who has not paid the current dues by the end of
      their current membership year will be dropped from
      membership.
   B. A member who has been dropped may reinstate membership by
      payment of all dues in arrears.

Article 4 - Directors

The board of directors shall consist of the president, vice-president,
secretary and treasurer of the corporation. The board of directors shall
have and exersize all lawful powers necessary for the conduct of business
as a corporation and to carry out its purposes stated herein.

Article 5 - The Executive Board

Section 1. The board shall consist of the elected officers and the
            appointed committee heads.

Section 2. The board shall handle the regular business of the organization.

Section 3. Meetings. Regular meetings of the executive board shall be held
            at least quarterly.

Section 4. Quorum. A quorum for conducting the business of the executive
            board shall be not less than 3 members of the board empowered to
            vote.

Section 5. Each outgoing board must leave in the treasury a sum equal to
            the unpaid bills or obligations for which the administration is
            responsible.

Article 6 - Officers and Committee Chairpersons

Section 1. There shall be the following elected officers.
   A. President

C. Secretary
D. Treasurer

Section 2. An officer who does not comply with assigned responsibilities
may be relieved of office by majority vote of the executive
board. Appointment of a replacement shall be made by the
president with the approval of the board.

Section 3. The heads of committees shall be appointed by the president
immediately after installation. They are approved by the elected
board.

Article 7 - Elections

Section 1.
    A. Nominations: A nominating committee coniists of a
       chairperson and two members appointed by the president
       three months before elections.
    B. Report of the nominating committee shall be made at the
       May meeting.
    C. Nominations from the floor will be in order at the May
       meeting.

Section 2.
    A. The nominating committee shall conduct the elections
       according to the procedures set up in the standing rules.
    B. Election shall be by secret ballot.
    C. Voting privileges. Each active-individual and
       active-family membership shall be entitled to one vote.

Section 3.
    A. Term of Office. Officers shall be elected for a term of
       one year, to serve from the time of installation in May
       until the succeeding installation of the officers the
       following year.
    B. Officers may not serve more than two consecutive terms.
       There must be an interval of at least one administration
       between each term.

Section 4. Transition of Administration: There shall be a meeting of the
executive boards immediately following installation. It should
include the outgoing and incomming officers and the committee
chairpersons. Upon the introduction of new business, the gavel,
charter, and files are turned over to the newly installed
presdident, who then becomes the presiding officer.

Article 8 - Duties of Officers

Section 1. The president shall
    A. preside at all meetings of the executive board and
       general meetings of the organization, and at any special
       meeting;
    B. appoint the committee heads immediately after
       installation;
    C. make interim appointments as needed with the approval of

D. sign all contracts with the secrtary;

E. serve as ex-officio member of all committees except that
    of the nominating committee; and

F. call a special meeting when it is necessary.

Section 2. The vice-president shall perform the duties of an absent
president, be responsible to organize meeting programs and
demostrations, make arrangements for computer systems be
available at the meetings and perform such duties as are
assigned by the president.

Section 3. The secretary shall record the minutes of all
proceedings of the board and membership meetings, handle the
correspondence of the organization and, with the president,
shall sign all contracts for the organization.

Section 4. The treasurer shall

A. have charge of all the funds of the organization;

B. make a monthly financial report to the membership;

C. sign all checks;

D. sign all membership cards; and

E. keep restricted funds of the organization in separate
    accounts.

Article 9 - Meetings

Section 1. There shall be monthly meetings.

Section 2. Special meetings may be called by the president or the board.
Upon written notice of 50 members, the president shall call a
special meeting. Notice of special meetings shall be given to
the members at least 7 days in advance.

Section 3. A quorum for conducting business of a regular or special meeting
of the membership shall be not less than 25% of the members
empowered to vote.

## Article 10 - Restricted Funds

Section 1. All restricted funds must be used as designated by the donor.

Section 2. Endowments and Restricted Funds: Only the interest earned by
endowments and restricted funds may be used for the designated
purpose of each fund.

Article 11 - Discipline

Section 1. Charges of professional dishonesty, working against the
principles and purposes of the organization, and/or injuring the
professional standing of a member, may be filed in a written
statement signed by five members in good standing and sent to
the executive board.

Section 2. The accused member shall be notified in writing of the action
and shall have the privilege of being present at a special or
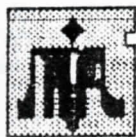
Section 3. The member may be suspended by two-thirds vote or expelled by three-fourths vote of the executive board.

Article 12 - Amendments

The bylaws may be amended or revised by an affirmative vote of two-thirds of all members present at a meeting designed for that purpose. Copies of proposed amendments shall be given members in writing at least one month prior to the meeting.

Article 13 - Dissolution

Upon the dissolution of the corporation, the Board of Directors shall, after paying or making provisions for the payment of all of the liabilities of the corporation, dispose of all of the assets of the corporation exclusively for the purpose of the corporation in such manner, or to such organization or organizations organized and operated exclusively for charitable, educational, religious or scientific purposes as shall at the time qualify as an exempt organization or organizations under Section 501(C)(3) of the Internal Revenue Code of 1954 (or the corresponding provisions of any future United States Internal Revenue Law), as the Board of Trustees shall determine. Any such assets not so disposed of shall be disposed of by the Circuit Court of Waukesha County, exclusively for such purposes or to such organization or organizations as said court shall determine, which are organized and operated exclusively for such purposes.

LEFT SLOT 800 (continued)

First cut the power to each slot. To do this cut the trace shown on figure D. That removes the +5V from the left socket. Next cut the trace shown in figure B that leads to pin 13. This removes the +5V supply from the right socket.

Next cut the traces from pin 14 for each slot. This removes the line that senses for the presence of a cartridge. Figure A shows which trace to cut to disconnect the left hand slot and figure C shows the trace to be cut located between pin 15 and the pin opposite. (only pins 1 though 15 are numbers on the board so I will refer to those numbers only.)

Now cut the two additional traces indicated for the right cartridge. These are traces leading to pins 1 and 12.

These cuts are shown in figure C. Cut the trace leading to the pin opposite number 1 of the right cartridge by cutting the trace shown in figure B as "cut thrid trace here". This is shown in figure B.

The next step wires the two cartridges in parallel. This is done by connecting pins 1,12 and pin opposite pin 1 of the left cartridge to the same pins on the right cartridge. Be careful when soldering the wires connecting the pins that solder does not bridge across to other pins.

Now is a good time to check your work. Review the traces cut and the jumpers connecting the cartridges. If all is well continue otherwise correct mistakes.

It is now time to wire the switch that lows selection of the cartridges. I suggest using six wire ribbon cable for this but small flexible wires are all that are needed. First select the place where you want the switch mounted and drill a hole. I used the left side of the bottom cover (under the keyboard 'control' button). Next cut the wire to a length sufficient to mount the switch where you want. About 15 to 18 inches is sufficient depending on where you want to mount the switch.

Connect one wire from point A (figure D) to a center terminal of the toggle switch. Connect the other two terminals on the switch corresponding to that terminal to point B (fig. D) and pin 13 of the right slot. You now have switch selectable power to the two cartridges.

Now connect the remaining center terminal of the toggle switch to point C shown in figure D. Connect the two remaining terminals of the toggle switch to pin 14 on each cartridge slot. Make sure you connect to the terminal that corresponds to which way power goes. This is the connection that senses the presence of a cartridge and it must be switched on when power is on and off when power is off to the cartridge. (see fig. E .. the ed.)

This completes the job. Carefully reassemble the computer. When back together set the switch to the center and turn on the power. If the blue screen does not come up quickly, shut down and inspect your work. The computer should be in the memo pad mode. Now insert the BASIC cartridge in the left slot and turn on power. If you have not moved the switch you should still be in the memo pad mode. Move the switch to one of the ON positions and press SYSTEM RESET again. You should see 'READY'on the screen. If not review your work. If all is normal place the BASIC cartridge in the right slot,

LEFT SLOT 800 (continued)

reverse the switch and press SYSTEM RESET.
Again you should see READY on the screen.
If not check your work.

If all has gone well you have two left
cartridge slots. This gives you the
equivalent of a 'built in' BASIC if you
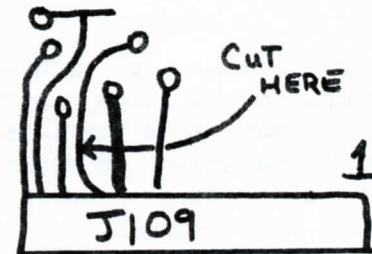choose or any other combination that suits
you.

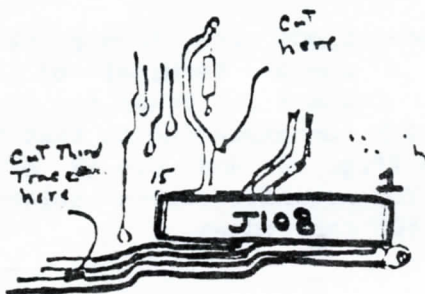Figure A
left hand slot
view from above.
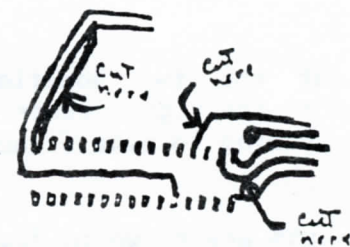
Figure B
Right hand slot
view from above.

Figure C
Right hand slot
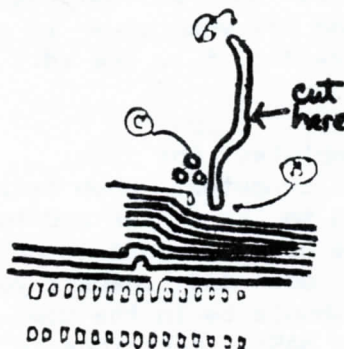Socket viewed
from below.
(left side of board)

Figure D
Left hand slot
Socket viewed
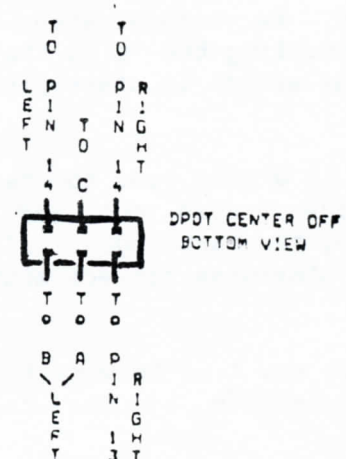from below.
(right side of board)

FIGURE E

MILWAUKEE AREA ATARI USERS GROUP AND NEWSLETTER INFROMATION

MILATARI OFFICERS

```
President........Gary Nolan....353-9716
Vice President...Chris Stieber.529-2663
Secretary.......Linda Scott...466-2314
Treasurer.......Steve Tupper..462-8178
```

MILATARI VOLUNTEERS

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MILATARI West...Dennis Bogie...968-2361
Education SIG...Joe Sanders....447-1660
ATR8000 & CP/M..Don Wilcox.....228-1650
Assembler SIG...Erik Hanson............
Membership......Dave Bogie.....968-2361
Newsletter......David Frazer...542-7242
--------Public Domain Libraries--------
Cassette .......Dennis Wilson..476-7767
Disk ..........Carl Mielcarek.355-3539
               Bill Lawrence..968-9341
--------Copy Write Libraries----------
Cassette/Disk...Gary Haberman..228-8845
Publications....Marcus Hagen...445-0710
               Bill Feest.....321-4314
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NEWSLETTER INFORMATION

This newsletter is written and printed by members of the Milwaukee Area ATARI User´s Group (MILATARI), an association of individuals with a common interest in using and programming ATARI computers. MILATARI is not affiliated with the ATARI company or any other commercial organizations.

Your contributions of articles are always welcome. You may submit your article on ATARI compatible compatible cassette or diskette, on typewritten form or you can arrange with the editor to upload your file via modem at either 300 or 1200 baud. You can can send GRAPHICS EIGHT or SEVEN PLUS screens stored on disk in a straight 62 sector binary file of the actual screen bytes. A MICROPAINTER file or binary file saved through +PICTURE PLUS+ will work fine.

MILATARI
Milwaukee Area Atari Users Group

MILATARI is an independent, user education group which is not affiliated with ATARI, INC. The newsletter is the official publication of MILATARI and is intended for the education of its members as well as for the dissemination of information concerning ATARI computer products.

MILATARI membership is open to individuals and families who are interested in using and programming ATARI computers. The membership includes a subscription to this newsletter and access to the club libraries. The annual membership fee is $15 for individual or $20 for a family.

Other computer user groups may obtain copies of this newsletter on an exchange basis.

All Material in this newsletter not bearing a ´COPYWRITE´ message may be reprinted in any form, provided that MILATARI and the author are given credit.

MILATARI ADVERTISING RATES

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Current paid members of MILATARI may place classified ads in the newsletter at no charge.

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